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- 1. A method of detecting wear on a substrate, said method comprising:
 a. coating a composition comprising a fluorescent compound on the surface of a substrate;
 b. exposing the coated surface to wear;
- 5 c. exposing the coated surface to radiation capable of exciting the fluorescent compound; and
 - d. detecting the presence or absence of fluorescence.

The method of claim 1, wherein said radiation comprises ultraviolet light.

- 3. The method of claim 1, wherein said radiation has a wavelength of from 200 nm to 400 nm.
- 4. The method of claim 1, wherein said fluorescent compound emits visible light.
 - 5. The method of claim 1, wherein said fluorescent compound emits radiation having a wavelength of from 400 nm to 750 nm.
- 20 6. The method of claim 1, wherein said detecting comprises visually observing the presence or absence of fluorescence.
 - 7. The method of claim 1, wherein exposing the coated surface to radiation occurs after a predetermined period of time.
 - 8. The method of claim 1, wherein the substrate comprises grout, cement clay, stone, brick, ceramic, polymer composite, wood, or a combination thereof.
- 9. The method of claim 1, wherein the substrate comprises marble, granite, 30 limestone, wood, vinyl, linoleum, or a combination thereof.

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- 10. The method of claim 1, wherein the substrate comprises a floor, a wall, or a pool.
- 11. The method of claim 1, wherein the substrate is located in a structure selected from the group consisting of dwelling, garage, hospital, store, restaurant, school, office, and gymnasium.
 - 12. The method of claim 1, wherein the substrate comprises an article selected from the group consisting of cooking articles, counter tops and laboratory bench tops.
 - 13. The method of claim 1, wherein the substrate comprises furniture, fabric, woven web, nonwoven web, film or a combination thereof.
 - 14. The method of claim 1, further comprising determining the fluorescence intensity.
 - 15. The method of claim 14, further comprising correlating the intensity of the fluorescence with the degree of wear on the coated surface.
- 20 16. The method of claim 1, wherein said composition comprises wax, acrylate, urethane, epoxy or a combination thereof.
 - 17. The method of claim 1, wherein said coating composition comprises a floor finishing composition, antimicrobial compositions, mildew growth preventing compositions, or a polishing composition.
 - 18. The method of claim 1, further comprising coating a second composition on the coated surface prior to exposing said coated surface to wear.

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- 19. The method of claim 1, further comprising coating a first layer and a second layer on said coated substrate after coating said substrate with said composition comprising a fluorescent compound.
- 5 20. The method of claim 1, wherein said step of coating comprises coating a portion of said substrate surface with said composition comprising a fluorescent compound.
- 21. The method of claim 1, further comprising coating a first portion of said substrate surface with said composition comprising a fluorescent compound and coating a second portion of said substrate with a second composition, said second composition being essentially free of said fluorescent compound.
 - 22. The method of claim 1, wherein said exposing said coated surface to wear comprises exposing said coated surface to pedestrian traffic.
 - 23. The method of claim 1, wherein said exposing said coated surface to wear comprises exposing said coated surface to repeated contact with other substrates.
- 20 24. The method of claim 1, further comprising
 - i. exposing a first area of the coated surface to radiation capable of exciting the fluorescent compound;
 - ii. exposing a second area of the coated surface to radiation capable of exciting the fluorescent compound, said second area having experienced relatively more wear than said first area; and
 - iii. comparing the intensity of the fluorescence of said first area with the intensity of the fluorescence of said second area.
 - 25. The method of claim 1, further comprising
- i. exposing the coated surface to radiation capable of exciting the fluorescent compound prior to exposing said coated surface to wear;

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- ii. detecting the intensity of the fluorescence emitted by said fluorescent compound at step (i);
 iii. exposing the coated substrate to radiation capable of exciting the fluorescent compound after exposing said coated surface to wear;
 iv. detecting the intensity of the fluorescence emitted by said fluorescent compound at step (iii);
- v. comparing the fluorescence intensity at step (ii) with the fluorescence intensity at step (iv).
- 26. A method of detecting wear on a substrate surface previously coated with a composition comprising a fluorescent compound, the coated surface having been exposed to wear, said method comprising:
 - a. exposing the surface to radiation capable of exciting the fluorescent compound; and
 - b. detecting the presence or absence of fluorescence.
- 27. The method of claim 26, further correlating the intensity of the fluorescence with the degree of wear on the coated surface.
- 28. A method of determining the degree of wear on a coated surface of a substrate, said surface having previously been coated with a composition comprising a fluorescent compound, said method comprising:
 - a. exposing the coated substrate to radiation capable of exciting the fluorescent compound;
 - b. measuring the fluorescence intensity emitted from said coated surface; and
 - c. comparing the measured fluorescence intensity with a predetermined fluorescence intensity.
- 30 29. The method of claim 28, wherein said predetermined fluorescence intensity comprises a calibration curve.

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- 30. The method of claim 28, wherein said predetermined fluorescence intensity comprises a fluorescence intensity value previously obtained from the coated substrate.
- 5 31. The method of claim 28, further comprising correlating the intensity of the fluorescence with the degree of wear on the coated surface.
 - 32. A method of detecting coverage of a coating on a substrate, said method comprising:
 - a. coating a substrate with a composition comprising a fluorescent dye essentially free of organosilicone;
 - b. affixing said composition to said substrate;
 - c. exposing the coated substrate to radiation capable of exciting the fluorescent dye; and
 - d. detecting the presence or absence of fluorescence across the coated surface to determine the extent of surface coverage by the coating composition.
 - 33. An aqueous composition comprising:
 fluorescent compound;
 silane selected from the group consisting of n-alkylalkoxysilane,
 condensates of n-alkylalkoxysilane and combinations thereof; and
 cationic quaternary ammonium surfactant.
- 25 34. The composition of claim 33, further comprising methyl hydrogen siloxane.